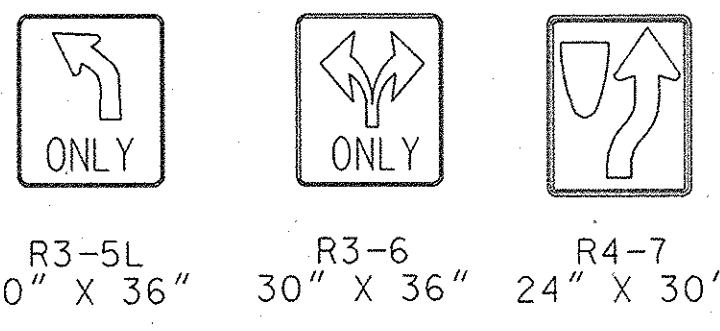
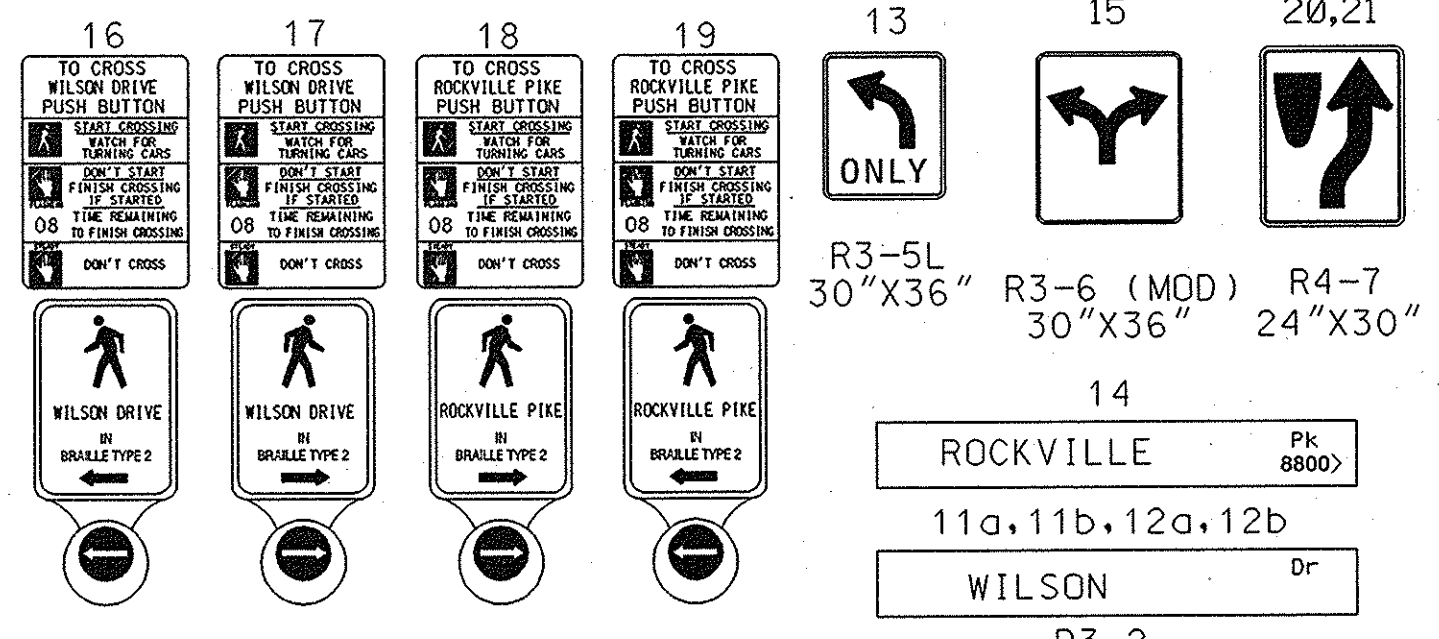


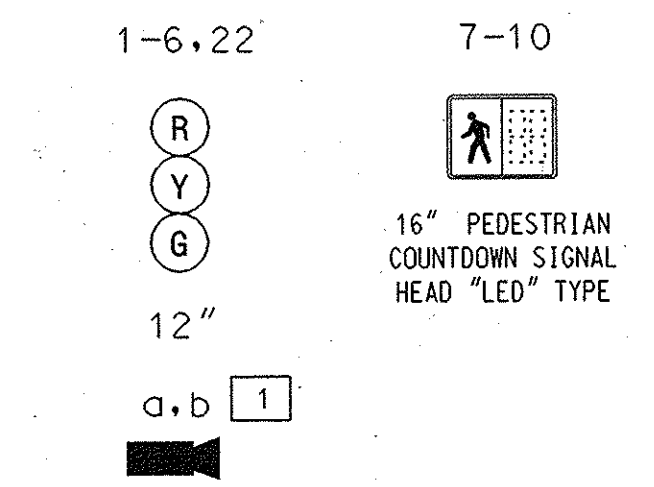
REMOVE EXISTING SIGNS



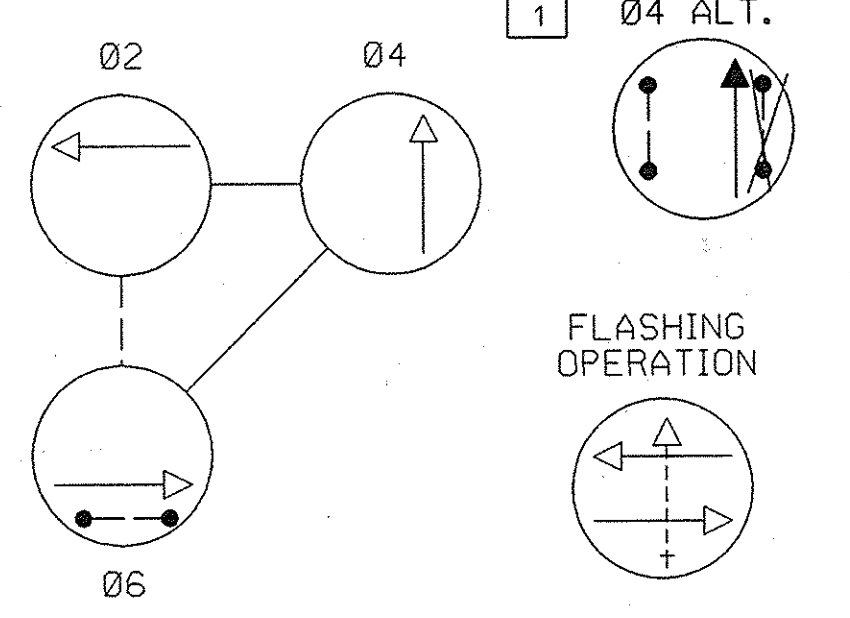
PROPOSED SIGN



PROPOSED SIGNALS



NEMA PHASING



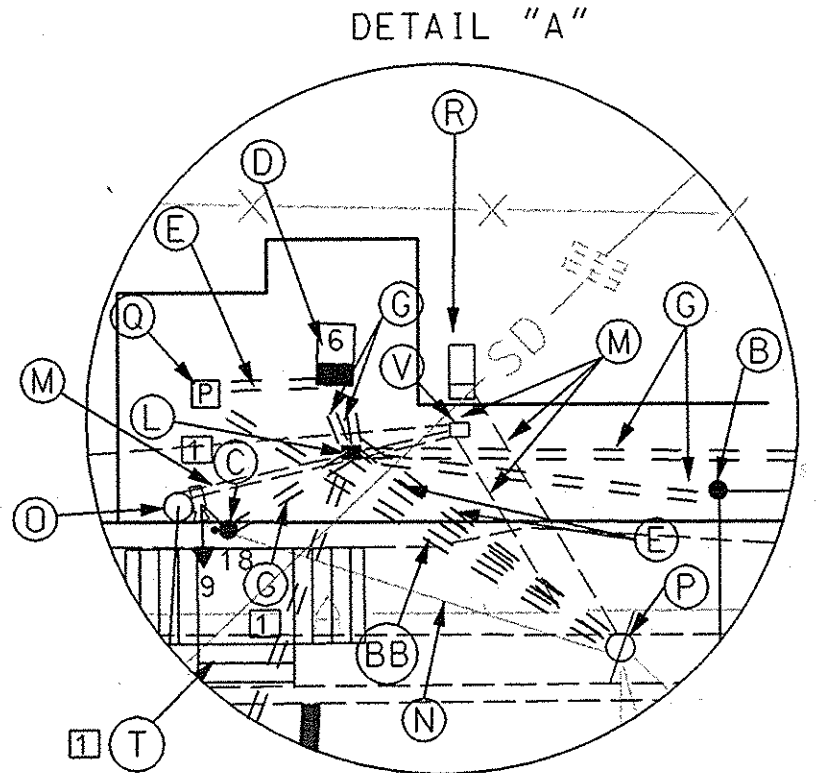
NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

- A. INSTALL 21 FT. MAST ARM POLE WITH 60 FT. MAST ARM, SIGNS, SIGNAL HEADS, AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH SIGN AND COUNTDOWN PEDESTRIAN SIGNAL HEAD (NOTE: 4" PVC SCHEDULE 80 CONDUIT BEND)
- B. INSTALL 21 FT. MAST ARM POLE WITH TWIN 50 FT./60 FT. MAST ARMS, VIDEO DETECTION CAMERAS, SIGNS AND SIGNAL HEADS (NOTE: 4" PVC SCHEDULE 80 CONDUIT BEND)
- C. INSTALL 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEAD, SIGNS AND AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH SIGN. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
- D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE (NOTE: TWO- 4 IN. PVC AND THREE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- E. INSTALL 2" PVC SCHEDULE 80 CONDUIT - TRENCHED.
- F. INSTALL 4" PVC SCHEDULE 80 CONDUIT - SLOTTED.
- G. INSTALL 4" PVC SCHEDULE 80 CONDUIT - TRENCHED.
- H. INSTALL 4" PVC SCHEDULE 80 CONDUIT - BORED.
- J. VIDEO DETECTION IMAGE.
- K. INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
- L. INSTALL HANDHOLE.
- M. CAP AND ABANDON EXISTING CONDUIT.
- N. DISCONNECT AND REMOVE EXISTING SERVICE, OVERHEAD BY PEPCO.
- O. REMOVE EXISTING STRAIN POLE, SPAN WIRE, AND ALL ASSOCIATED EQUIPMENT. (NOTE: REMOVE EXISTING BASE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL)
- P. PULL BACK EXISTING INTERCONNECT CABLE TO EXISTING UTILITY POLE AND RECONNECT TO NEW BASE MOUNTED CABINET. SEE GENERAL INFORMATION SHEET.
- Q. INSTALL 200 AMP METERED SERVICE PEDESTAL.
- R. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET, AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- S. INSTALL GROUND MOUNTED SIGN WITH 4 X 4 WOOD POST.
- T. INSTALL HANDICAP RAMP. (STD NO. MD 655.13)
- U. INSTALL HANDICAP RAMP. (STD NO. MD 655.11)
- V. REMOVE EXISTING HANDHOLE
- W. REMOVE EXISTING BASE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- X. REMOVE EXISTING PAVEMENT MARKINGS- ANY SIZE
- Y. INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS ARROWS.
- Z. INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
- AA. USE EXISTING HANDHOLE.
- BB. INSTALL 4" PVC SCHEDULE 80 CONDUIT - TRENCHED. (STUB UP AT BASE OF UTILITY POLE, PROVIDE 35 FT OF SLACK/COIL 3 WIRE, 1 CONDUCTOR 250 KCML, CU, USE ELECTRICAL CABLE FOR SERVICE)
- CC. REMOVE EXISTING MEDIAN, INSTALL A NOSE DOWN MEDIAN END AND ASPHALT PAVEMENT.
- DD. INSTALL VIDEO DETECTION CAMERA.

GENERAL NOTES

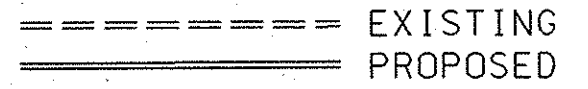
- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- 3. ALL PAVEMENT MARKINGS DETAILED SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- 4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL. EXCEPT CONTROLLER AND VIDEO DETECTION CAMERAS.
- 5. ALL PROPOSED LUMINAIRE SHALL BE SUPPLIED WITH A PHOTOCCELL.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- 7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. NOTE: THE CONTRACTOR TO BE AWARE OF THE FIBER OPTIC LINE.
- 8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.



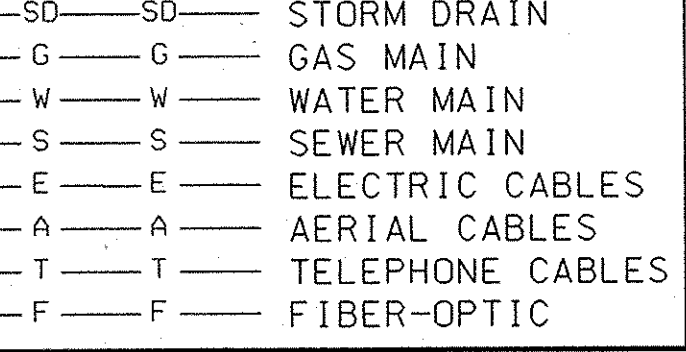
SCALE: 1"=10'

1 REDLINE REVISION 8/9/07

GEOMETRIC LEGEND



UTILITY LEGEND



BAI

BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS

9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)

APPROVALS	REVISIONS
TEAM LEADER	A REPLACED LOOP DETECTION WITH VIDEO CAMERAS 6/2005
ASST. DIV. CHIEF	JVA JH MAR DAZ 6/30
DIVISION CHIEF	B 12/08/2005 REMOVE DAMAGED STRAIN POLE BASE IN MEDIAN
OFFICE DIRECTOR	SHA: TMS * 6/30
	MAM KMP JAH WH 12/08/2005
	C RECONSTRUCT SIGNAL W/ 12/08/2005
	SHA: AT 105185 TMS H556
	MAM JAH JAH MAR WH TH

PLOTTED: 8/24/2007
FILE: 8/24/2007

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 AT WILSON DRIVE
BETHESDA, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20'	DATE	CONTRACT NO.
DESIGNED BY	SHA	COUNTY MONTGOMERY
DRAWN BY	SHA	LOGMILE 15035502.94
CHECKED BY	SHA	T.I.M.S. NO. H556
F.A.P. NO.		TOD NO.
DRAWING NO. 438TB	OF	SHEET NO. 1 OF 2